BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Subsidiary Diploma in Applied Science Pearson BTEC International Level 3 Foundation Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Biomedical Science Pearson BTEC International Level 3 Diploma in Environmental Science Pearson BTEC International Level 3 Extended Diploma in Applied Science Pearson BTEC International Level 3 Extended Diploma in Biomedical Science Pearson BTEC International Level 3 Extended Diploma in Environmental Science
Unit number and title	**Unit 15: Diseases and Infections**
Learning aim(s)	**C:** Investigate causes of environmental pollution and the effects of pollutants on human health
Assignment title	**Environmental pollution and human health**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You are on work experience with a local environmental charity. They want to raise public awareness of the environmental effects of pollution on human health. Awareness and concern about the damage being done to human health as a result of pollution are increasing. You have been asked to produce publicity materials that describe the causes of environmental diseases, evaluates their impact on human health, analyses and evaluates methods and solutions that can be used to reduce the effects of environmental pollutants.

Task	Using your research into pollution and initiatives from global organisations to reduce pollution, produce some publicity materials to: • **Evaluate** air and water pollution resulting from both human activities and natural phenomena (e.g. volcanoes, sand and dust storms, bush fires.) **Evaluate** the impact of these activities on human health in relation to the pollutants and their sources. Global organisations and initiatives they are employing in an attempt to protect the environment must be discussed and **evaluated** in terms of how they will effectively decrease pollution levels and lead to improvements in public health. Examples of initiatives could include: o alternative and clean energy sources o responsible consumption of fuels o biodegradable plastics

	o substitution of nitrogen fertilisers o solid waste management, o wastewater treatment and sanitation o reforestation. • Provide a detailed **analysis** of **one** named pollutant, identified as having a major effect on the environment and human health. **Analyse** how the pollutant enters the environment and explain in detail how it impacts on health. Analyse in detail methods that can be used to reduce the sources of the pollutant and the impact this may have on the environment and human health. Demonstrate your understanding of global organisations and initiatives that they have in place to reduce diseases and deaths caused by atmospheric and water pollution. • Identify and **describe** the sources of pollutants believed to be responsible for **three** named environmental diseases, one each from **water, air and radioactivity**. Provide details of how the pollutants came to be in the environment causing contamination. Describe the symptoms and the short and long-term effects of each of the three named diseases. Correct scientific terminology must be used and sources must be referenced.
Checklist of evidence required	

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria, you must show that you are able to:
C.D3	Evaluate the impact of environmental pollution on human health and potential solutions.
C.M3	Analyse methods that can be used to reduce the effects of environmental pollutants.
C.P4	Describe the causes and effects of three environmental diseases.
Sources of information to support you with this Assignment	https://www.niehs.nih.gov/health/assets/docs_a_e/environmental_diseases_environmental_diseases_from_a_to_z_english_508.pdf https://academic.oup.com/jpubhealth/article/39/3/464/3003007 https://www.who.int/airpollution/ambient/health-impacts/en/ http://www.euro.who.int/en/health-topics/environment-and-health/air-quality/publications/2019/noncommunicable-diseases-and-air-pollution-2019 https://www.environmentalpollutioncenters.org/water/diseases/ https://www.cdc.gov/healthywater/drinking/public/water_diseases.html https://public.wmo.int/en/media/news/wmo-joins-global-commitment-cut-air-

	pollution
Other assessment materials attached to this Assignment Brief	e.g. work sheets, risk assessments, case study